

REFERENCE: B-5747

PROJECT: 45703

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY CHATHAM
PROJECT DESCRIPTION BRIDGE NO.157 ON SR 2145
(R.JORDAN ROAD) OVER CEDAR CREEK

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5747	1	9

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT, FOR BIDDING AND CONSTRUCTION PURPOSES. REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
 - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL
P.M. WEAVER
SAEDACCO

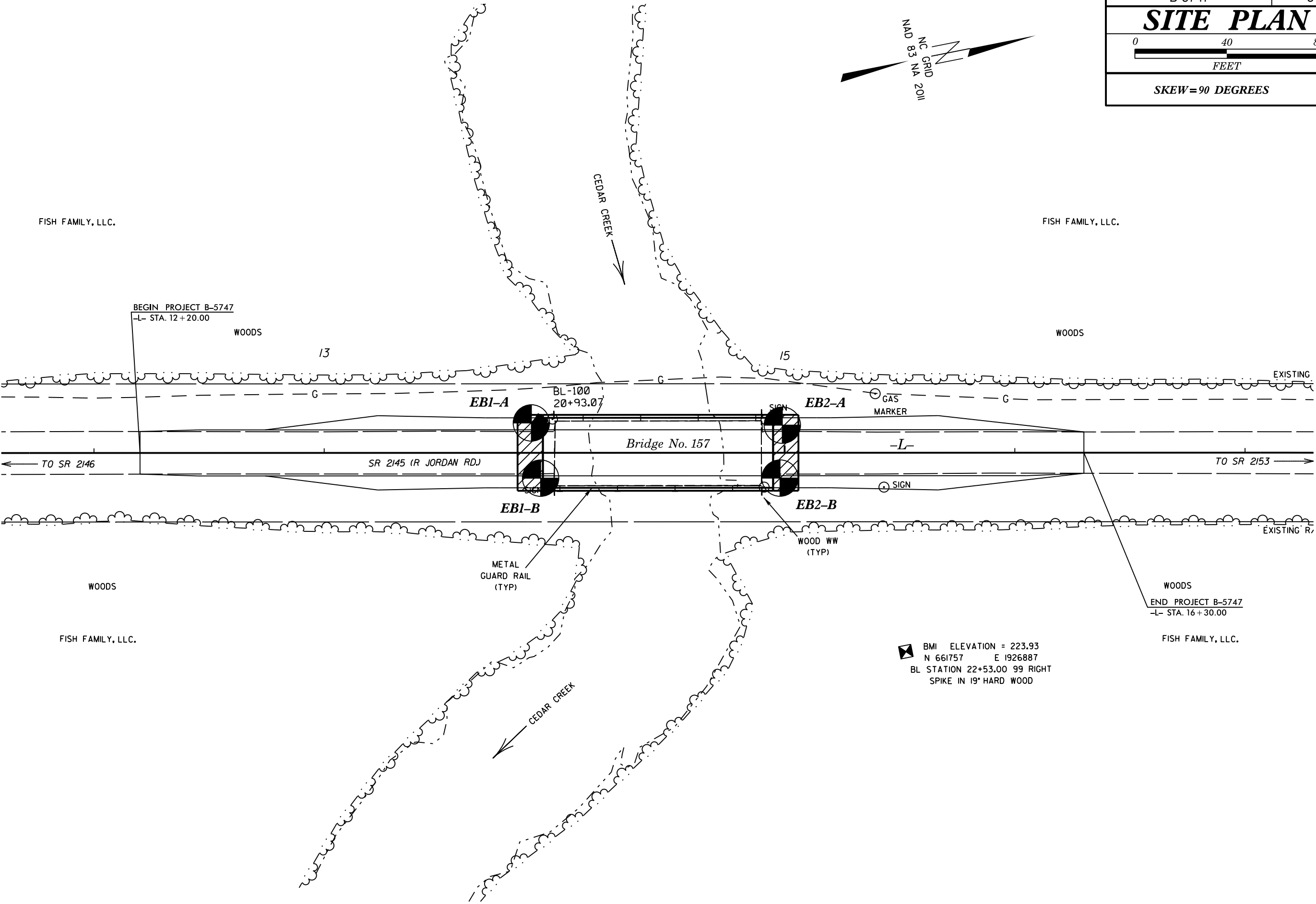
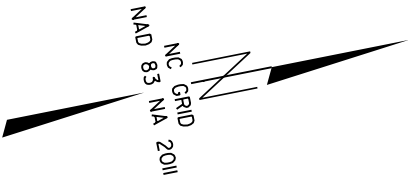
INVESTIGATED BY ESP Associates, P.A.
DRAWN BY T.T. WALKER
CHECKED BY P. WEAVER
SUBMITTED BY ESP Associates, P.A.
DATE September 2016



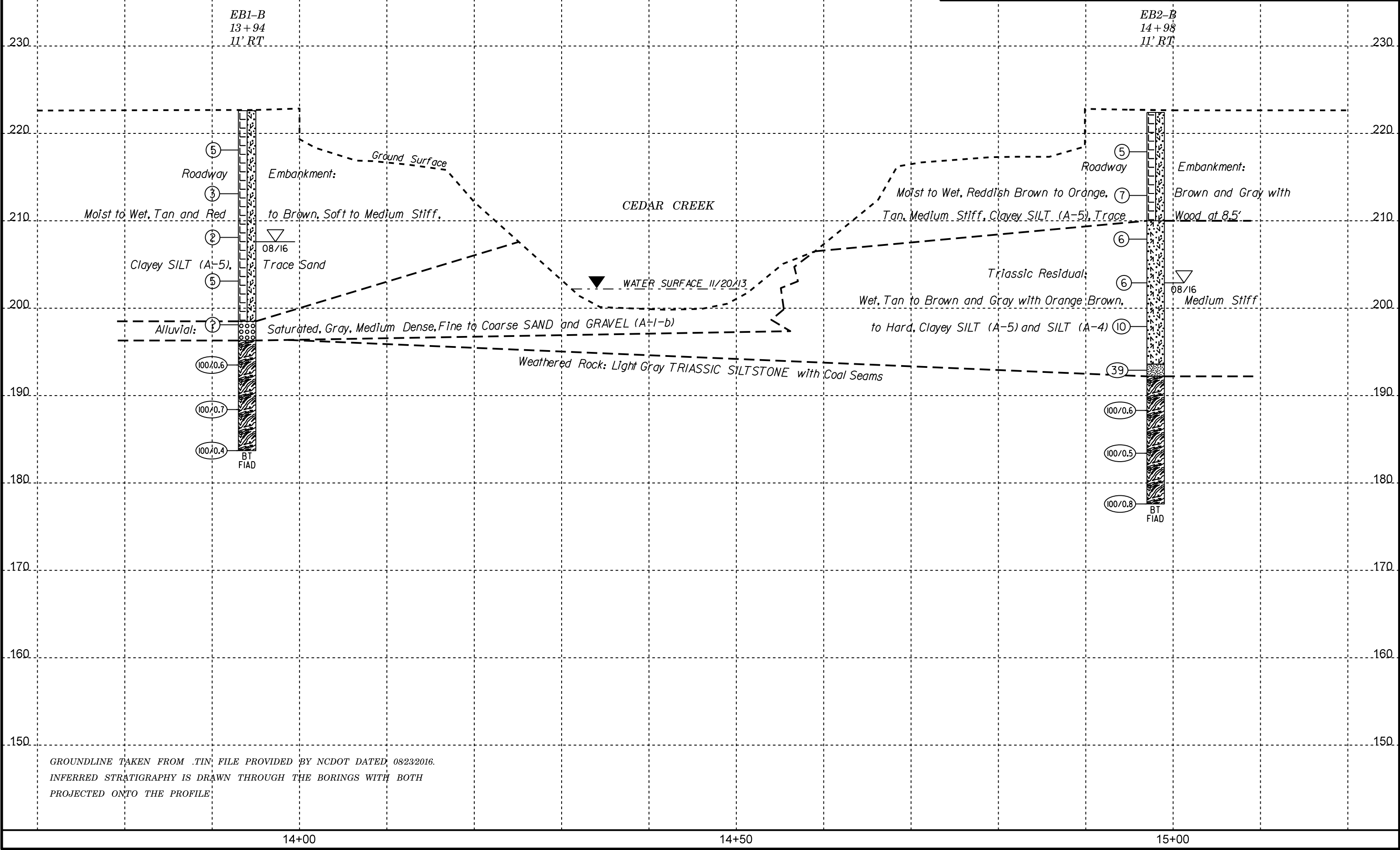
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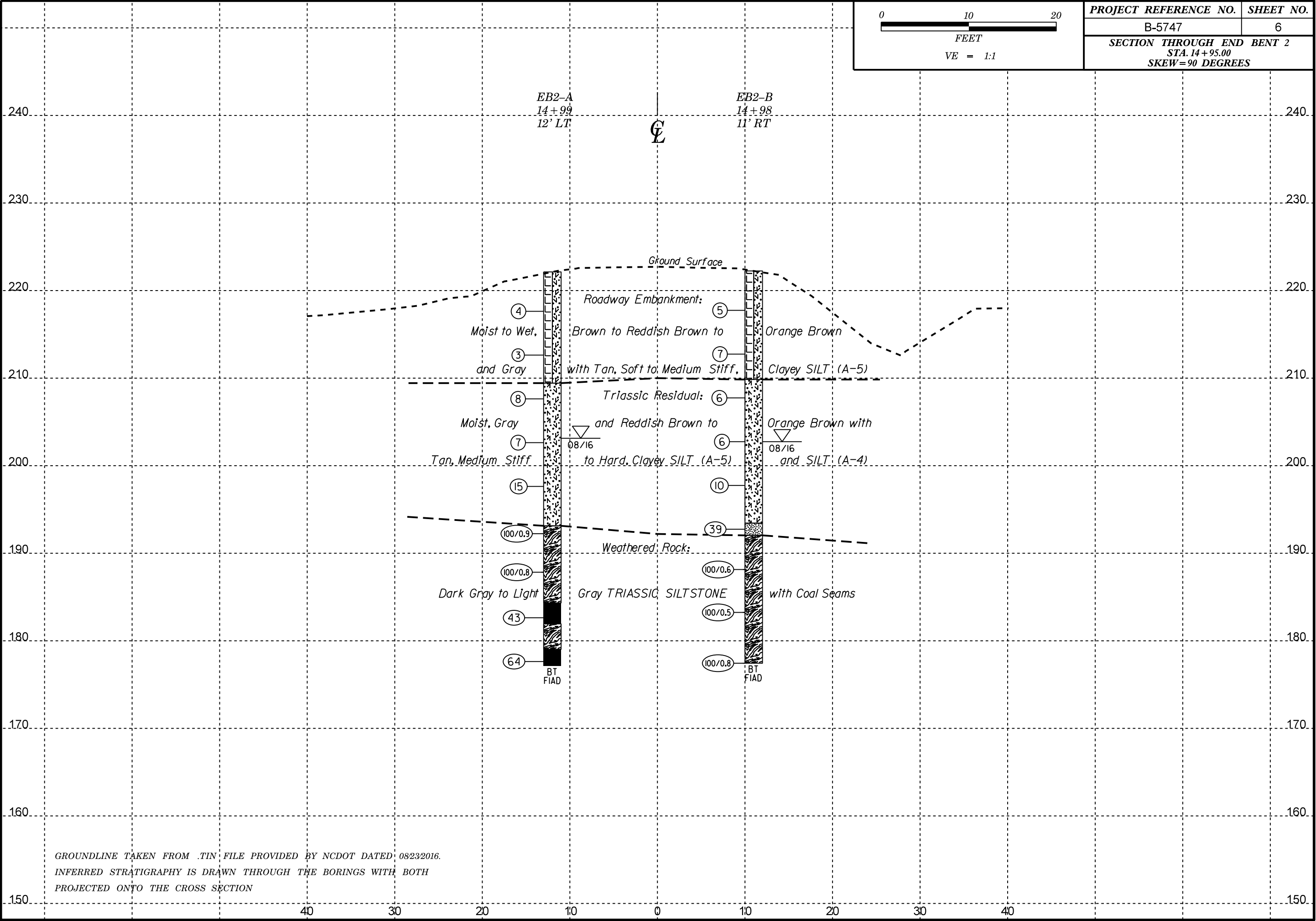
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PROJECT REFERENCE NO.	SHEET NO.
B-5747	3
SITE PLAN	
0 40 80 FEET	
SKEW=90 DEGREES	



BM ELEVATION = 223.93
N 661757 E 1926887
BL STATION 22+53.00 99 RIGHT
SPIKE IN 19" HARD WOOD





NCDOT BORE DOUBLE B5747_GEO_BRDG157_GINT_LOGS.GPJ NC_DOT.GDT 8/31/16

WBS		45710		TIP		B-5747		COUNTY		CHATHAM		GEOLOGIST		Weaver, P.M.									
SITE DESCRIPTION												Bridge No. 157 on SR 2145 (R Jordan Road) over Cedar Creek				GROUND WTR (ft)							
BORING NO.				EB1-B		STATION				13+94		OFFSET		11 ft RT		ALIGNMENT		-L-		0 HR.		15.0	
COLLAR ELEV.				222.6 ft		TOTAL DEPTH				38.9 ft		NORTHING		661,616		EASTING		1,926,783		24 HR.		FIAD	
DRILL RIG/HAMMER EFF./DATE										SAE0244 DIEDRICH D-50 82% 12/29/2015				DRILL METHOD				H.S. Augers		HAMMER TYPE		Automatic	
DRILLER				Smith, S.		START DATE				08/22/16		COMP. DATE				08/22/16		SURFACE WATER DEPTH				N/A	
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	L O G	SOIL AND ROCK DESCRIPTION									
			0.5ft	0.5ft	0.5ft	0	25	50	75	100													
225																							
220	219.1	3.5	3	2	3							M		GROUND SURFACE 0.0									
215	214.1	8.5	2	1	2							W		ROADWAY EMBANKMENT Tan and Red to Brown, Soft to Medium Stiff, Clayey SILT (A-5), Trace Sand									
210	209.1	13.5	1	1	1																		
205	204.1	18.5	1	2	3							W											
200	199.1	23.5	3	7	7							Sat.		ALLUVIAL 24.1									
195	194.1	28.5	85	15/0.1										Gray, Medium Dense, Fine to Coarse SAND and GRAVEL (A-1-b) Note: Blow Count Influenced by Gravel 26.3									
190	189.1	33.5	68	32/0.2										WEATHERED ROCK Light Gray TRIASSIC SILTSTONE with Coal Seams Note: In and out of thin, very hard lenses throughout									
185	184.1	38.5	100/0.4											183.7 Boring Terminated at Elevation 183.7 ft In Weathered Rock: TRIASSIC SILTSTONE with Coal Seams 38.9									

NCDOT BORE DOUBLE B5747 GEO BRDG157 GINT LOGS.GPJ NC DOT.GDT 8/31/16

[illegible]

SITE PHOTOGRAPHS
State Project No. 45703.1.1 – TIP No. B-5747 – Bridge No. 157 on SR 2145 (R Jordan Road) Over Cedar Creek – Chatham County, NC

View of Existing Bridge No. 157 Looking Upstation



View of Existing Bridge No. 157 Looking Downstation



View Looking Upstream from Bridge No. 157



View Looking Downstream from Bridge No. 157

